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1100 a	For manip			
PCT	For receiving Office use only			
	International Application No.			
REQUEST	International Filing Date			
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Of	. Name of receiving Office and "PCT International Application"		
	Applicant's or agent's (17 derired) (12 charac	file reference ters musimum) MCM/PWJ/24648GB		
Box No. I TITLE OF INVENTION Integrated Loop Antenna For Vehicular Applica	tions			
Box No. II APPLICANT This person	n is also inventor			
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of a Box is the applicant's State (that is, country) of residence if no State of residen		Telephone No.		
Harada Industries (Europe) Limited		Facsimile No.		
Bell Heath Way Woodgate Business Park		Teleprinter No.		
Clapgate Lane, Birmingham, B32 3BZ United Kingdom		Applicant's registration No. with the Office		
State (that is, country) of nationality: United Kingdom	State (that is, country) United Kingdo			
		the United States of America only the States indicated in the Supplemental Box		
Box No. III FURTHER APPLICANT(8) AND/OR (FURTE	ER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal entit. The address must include pastal code and name of country. The country of the Bax is the applicans's State (that is, country) of residence if no State of residence		This person is:		
LEELARATNE; Dedimuni Rusiru Vinodaka		applicant and inventor		
55 Tunstall Road Canterbury, Kent, CT2 7BX		inventor only (if this check-bax is marked, do not fill in below.)		
United Kingdom		Applicant's registration No. with the Office		
State (that is, country) of nationality: Sri Lanka	State (that is country) of United Kingdor			
This person is applicant all designated all designated		be United States the Seates indicated in the Supplemental Box		
for the purposes of: States the United States of America (1) of America only the Supplemental Box Further applicants and/or (further) inventors are indicated on a continuation theet.				
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR	CORRESPONDENCE		
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:				
Name and address: (Family name followed by given name; for a legal entity, The address trust include postal code and name of coun	Telephane No. +44 (0)20 7830 0000			
MOIR, Michael Christopher	Facsimile No. +44 (0)20 7830 0001			
Mathys & Squire 100 Gray's Inn Road	Feleprinter No.			
London WC1X 8AL				
United Kingdom	Agent's registration No. with the Office			
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.				

Form PCT/RO/101 (first sheet) (March 2001; reprint July 2003)

Sheet No?	
Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER	R) INVENTOR(S)
If none of the following sub-boxes is used, this sheet should not be included in the t	
Name and address: (Family name followed by given name; for a legal entity, full official designation	This person is:
The address must include postal code and name of custury. The colors of mailence is indicated below.) Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) CALLAGHAN; Peter	applicant only Experiment and inventor
2 Kilndown Gardens	inventor only (If this check-box
Canterbury	is marked, do not fill in below.)
Kent, CT2 7TY United Kingdom	Applicant's registration No. with the Office
State (that is, country) of nationality: State (that is, country) United Kingdom	
United Kingdom	the United States of America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given name: for a legal entity, full efficial designation. Name and address: (Family name followed by given name: for a legal entity, full efficial designation. The orderess must lackede postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) RANDALL: John	This person is: applicant only Applicant and inventor
15 Charles Drayson Court Faversham	inventor only (If this check-box is marked, do not fill in below.)
Kent, ME13 8BB United Kingdom	Applicant's registration No. with the Office
State (that is, country) of nationality: United Kingdom State (that is, country) United Kingdom	
This person is applicant all designated all designated States except for the purposes of:	of America only the Supplemental Box
Name, and address: (Family name followed by given name; for a legal entity, full official designation. Name, and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of causiny. The country of the address indicated below.) But is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-bar is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: State (that is, country)	y) of residence:
This person is applicant all designated all designated states except for the purposes of:	the United States of America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full official designation. The ackiress must inchede postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only spplicant and inventor inventor only (If this check-box is marked do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: State (that is, country)	of residence:
This person is applicant all designated all designated States except for the purposes of:	the United States of America only the Supplemental Box
Further applicants and/or (further) inventors are indicated on another continuation	sheet.

Form POT/RO/101 (continuation sheet) (March 2001; reprint July 2003)



Sheet No. ...3...



Box No. V DESIGNATION OF STATES Mark the applicable check-	boxes below: at least one must be marked.
The following designations are hereby made under Rule 4.9(a):	
Regional Patent AP ARIPO Patent; GH Ghans, GM Gambis, KE Kenya, LS Les	otho, MW Malawi, MZ Mozambique, SD Sudan,
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o i pussian Federation, 13 lankistan, 1 M i womenistan, and any c	other State which is a Contracting State of the Eurasian
1 Part Convention and of the PCT	
EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & Li	Switzerland and Liechtenstein, CY Cyprus, CZ Czech
Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI F HU Hungary, IE Ireland, IT Italy, LU Lexembourg, MC Monaco, NI	. Maineriands. Partoniurai, aco romanial de dacoco.
SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a	Contracting State of the European Patent Convention
and of the PCT	
- RI Benin CF Central African Re	public, CG Congo, CI Côte d'Ivoire, CM Cameroon,
TD Chad, TG Togo, and any other State which is a member State of of protection or treatment desired, specify on dotted line)	OAPI and a Conducting state of the Let (1) or us, when
of protection or treatment assired, spectry on which amount of	uttad lina)
National Patent (if other kind of protection or treatment desired, specify on de AE United Arab Emirates	M OM Oman
AE United Arab Emirates	PG Papus New Guines
I Indonesia	M PH Philippines
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MAM Armenia	******* M LT SAME
ER Any Americalism	RU Russian Federation
BY RA Bosnia and Herzegovina KE Kenya	
	MAL MIL MEVEREIRES
PI BG Bulgaria	SE Sweden
BI BR DIELL	SC Singapore
BY Belarus SA KR Republic of Kores	SK Slovakia
BZ Belize LC Saint Lucia	81 Sierra Leone
CA Canada CH & Li Switzerland and Liechtenstein CH & Li Switzerland and Liechtenstein	🜠 SY Syrian Arab Republic
- IM TD Tiberia	TJ Tajikistan
El CO Colombia	TM Turkmenistan
St CD Corts Rich	TA IMPAR
El Cit Cube	TR Turkey
El ar Camb Pamblic	Trinidad and Tobago
MA MOTOCO	TZ United Recublic of Tanzania
DE Germany	L UA Ukraine
DM Dominics MG Madagascar MG Madagascar	I UG Uganda
DZ Algeria	ublic of W US United States of America
ER Estonia	*******
EK Estonik	LIZ Uzbekistan
MWMalawi	VC Saint Vincent and the Grenadines
Con the Vingdom MX Mexico	****** MY AM Alex Learns ************************************
MZ Mozambique	YU Serbia and Montenegro
GF Georgia	ZA South Africa
ICH Chang	ZM Zambia
GM Gambia NZ New Zealand	🛣 ZW Zimbabwe
Check-boxes below reserved for designating States which have become party to	the PCT after issuance of this sheet:
UUU	
The State of the Addition to the designations made a	hove, the applicant also makes under Rule 4.9(b) all
	sticities indicated at one combinements sow as cours
other designations which where afthis statement. The applicant declares that those addition	onal designations are subject to confirmation and that

Precautionary Designation Statement: In addition to the designations made above, the applicant has make under the experiment other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Form PCT/RO/101 (second sheet) (July 2003)

Sheet No. ...4...

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the spece is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the information in the Box in which the space was insufficient, in MOIR; Michael Christopher Manner and the special of the Box in which the space was insufficient, in MOIR; Michael Christopher Manner and the special of the Box in which the space was insufficient, in MOIR; Michael Christopher Manner and the special of the Box in which the space was insufficient.
- (i) If more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available; in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. [] or in any of the sub-boxes of Box No. []], the indication "the States indicated to the Supplemental Box" is checked: in such case, write "Continuation of Box No. []" or "Continuation of Box No. []" are "Continuation of Boxes No. [] and No. []" (as the case may be), indicate the name of the applicant(s) involved and next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurostan, European or OAPI notent) for the numbers of which the named next n is OAPI potent) for the purposes of which the named person is applicant:
- if, in Box No. If or in any of the sub-boxes of Box No. III, the Inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurosian, European or OAPI patent) for the purposes of which the named person is inventor; named person is inventor;
- if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Bax No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanted by the indication "patent of addition." or "certificate of addition." or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Bax No. V" and the name of each State involved (ar OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application:
- ff, in Box No. VI, there are more than five earlier applications whose priority is claimed: In such case, write "Continuation of Bax No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- if, with regard to the precautionary designation statement contained in Box No. V. the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation 2. statement" and indicate the name or two-letter code of each State so excluded

COZENS; Paul Dennis SCHLICH; George William KAZI; Ilya

COLMER: Stephen Gary MURRAY; Elicabeth Anne MACLEAN: Martin Robert } All of:

Mathys & Squire 100 Gray's Inn Road London WC1X 8AL United Kingdom

ADAMS; Harvey Vaughan John WONG; Kit Yee TAYLOR; Kathryn May

Form PCT/RO/101 (supplemental sheet) (March 2001; reprint July 2003)

Sheet No5	
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Box No. VI PRIORI	TY CLAIM			
The priority of the follow	ving earlier application(s) is her	cby claimed:		•
Filing date	Number Where earlier application is:			is:
of earlier application (day/month/year)	of earlier application	national application: country of Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 24 July 2002	0217157.7	United Kingdom		
item (2)				
item (3)				
item (4)				
item (5)				
Purther priority claim	s are indicated in the Suppleme	zital Box.		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: all items item (1) item (2) item (3) item (4) item (5) Supplemental Box * Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):				
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international search, maican	arching Authority (ISA) (if me the Authority chosen; the two-	EUST COUS MAY DE MIDAY.		competent to carry out the
Request to use results of ex International Searching Auth	ariler search; reference to the territy):			by or requested from the
Date (day/manth/year) Number Country (or regional Office)				
Box No. VIII DECLARA	nons			·
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of check-boxes below and indicate in the right column the number of each type of declaration): declarations				
Box No. VIII (i)	Declaration as to the identity	of the inventor		:
Box No. VIII (ii)	x No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :			
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :				:
Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America) :			:
Box No. VIII (v)	Declaration as to non-prejudic	cial disclosures or excepti	ons to lack of novelty	:

Farm PCT/RO/101 (third sheet) (July 2002; reprint July 2003)

Charl No.	6	

Box No. 1X CHECK LIST; LANGUAGE OF FILING					
This international application contains: (a) in paper form, the following number of	This international application is accompanied by the followitants (mark the applicable check-boxes below and indicate right column the monber of each item):	wing Number in of items			
Elicera:	1. Tee calculation sheet	;			
request (including 6 declaration sheets)	2. Original separate power of attorney	;			
tercluding	3. Original general power of attorney	:			
sequence listings and/or uables related thereto) : 12	4. Copy of general power of attorney; reference num	ber,			
1 . 4	if any:	:			
claims	5. statement explaining lack of signature 6. priority document(s) identified in Box No. VI as				
drawings : 5	item(s):	:			
Sub-total number of sheets : 28	7. translation of international application into	: :			
sequence listings tables related thereto	8. separate indications concerning deposited microo or other biological material	. is a second se			
(for both, actual number of sheets if filed in paper form, whether or not also filed in	 fequence listings in computer readable form (indicate type and number of carriers) 				
see (c) below)	(i) copy submitted for the purposes of internation	onal application):			
Total number of sheets : 28	(ii) (only where check-box (b)(i) or (c)(i) is marked if additional copies including, where applicable, mirroses of international search under Rule 13	the copy for the ter :			
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tokies related insisti	10. tables in computer readable form related to sequent (Indicate type and number of carriers)				
(c) also in computer readable form (Section 801(a)(ii)) (i) sequence listings	(i) copy submitted for the purposes of internation Section 802(b-quater) only (and not as part of	al search under the international			
tables related thereto	aunlication)	· ·			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii) (only where check-box (b)(ii) or (c)(ii) is marked additional copies including, where applicable, purposes of international search under Section	200/2 3			
contained the sequence listings:	(iii) together with relevant statement as to the idem copies with the tables mentioned in left column	ity at the copy of			
-Line related thereto:	11. M other (specify): Form 23/77	:			
(additional copies to be indicated under ltems 9(ii) and/or 10(ii), in right column)	II. (g) Outer (specify).				
Figure of the drawings which should accompany the abstract:	Language of filing of the Englis international application:				
Should accompany	AGENT OR COMMON REPRESENTATIVE	vious from reading the request).			
Next to each signature, inchance the name of the person sign	AGENT OR COMMON REPRESENTATIVE in any and the capacity is maked the person signs (If such capacity is maked the person signs).				
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MORE					
	Date: 24 July 2003				
MOIR, Michael Christopher					
	For receiving Office use only				
and a second associate of the purported	·	2. Drawings:			
1. Date of actual receipt of the purposed international application:					
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
Borrowives					
4. Date of timety receipt of the required corrections under PCT Article 11(2):					
5. International Scarching Authority (if two or more are competent): ISA / Transmittal of search copy delayed until search fee is paid					
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					
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